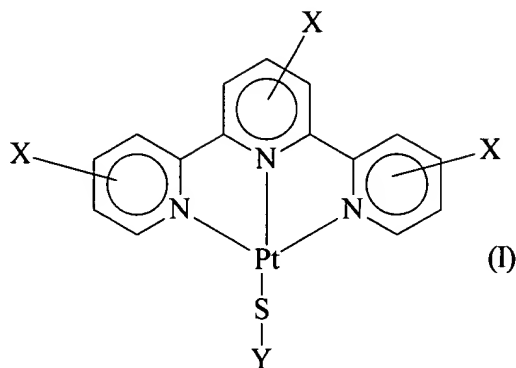


IN THE CLAIMS

1. (Previously Presented) A compound which is a complex of formula (I), or an isomer thereof,



wherein

each X, which may be the same or different, is hydrogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, heterocyclyl, aralkyl, alkaryl, acyl, halogen, haloalkyl, haloaryl, hydroxyalkyl, hydroxyaryl, aminoalkyl, aminoaryl, primary, secondary or tertiary amine, hydrazine, alkylhydrazine, alkoxyl, alkylthio, aralkoxyl, nitrile, ester, amide, nitro, azide or aziridino, or is a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species, or a covalently linked moiety which provides recognition for a target receptor; and

Y is alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aralkyl, heterocyclyl, an inorganic oxyacid or inorganic oxyacid derivative, or a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species; or

a pharmaceutically acceptable salt thereof, for use in a method of treatment of the human or animal body by therapy.

2 (Previously Presented) A compound as claimed in claim 1 wherein X is hydrogen, halogen or alkoxyl or aryl.

3. (Previously Presented) A compound as claimed in claim 1 wherein X is hydrogen, chlorine, methoxyl, ethoxyl, propoxyl, butyloxyl, pentyloxyl, hexyloxyl, heptyloxyl, octyloxyl, bromophenyl or tolyl.

4 (Previously Presented). A compound as claimed in claim 1 wherein Y is alkyl, aralkyl, heterocyclyl or an inorganic oxyacid or inorganic oxyacid derivative.

5 (Previously Presented). A compound as claimed in claim 1 wherein Y is $(\text{CH}_2)_n\text{OH}$ or $(\text{CH}_2)_n\text{NH}_3^+$ wherein n is an integer of 1 to 6 or alkyl substituted by one or more amino or carboxy groups; CH_2aryl ; a 5- or 6-membered saturated heterocyclic ring or a 5- or 6-membered unsaturated heterocyclic ring containing at least one N which may be fused to a 6-membered aryl ring; or SO_3R or PO_3R_2 wherein R is hydrogen or alkyl.

6 (Original) A compound as claimed in claim 5 wherein n is an integer of at least 2.

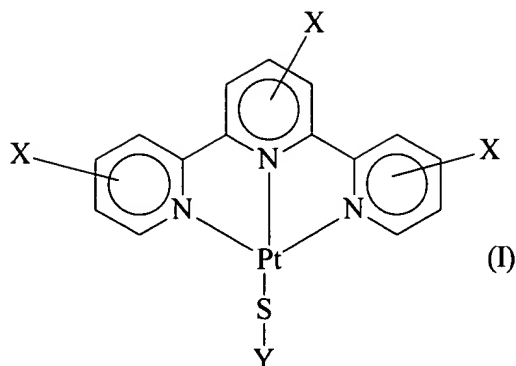
7 (Previously Presented). A compound as claimed in claim 1 which is
2-hydroxyethanethiolate-(2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II),
2-hydroxyethanethiolate-(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II),
2-aminoethanethiolate-(2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),
pyridine-2-thiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),

pyridine-2-thiolate-(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II),
 pyridine-2-thiolate-(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II),
 pyridine-4-thiolate-(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(4'-chloro-2,2':6',2''-terpyridine)platinum (II),
 pyrimidine-2-thiolate-(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II),
 imidazole-2-thiolate-bis[(2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-n-butyloxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-n-hexyloxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-n-octyloxy-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-p-bromophenyl-2,2':6',2''-terpyridine)platinum (II)],
 imidazole-2-thiolate-bis[(4'-p-tolyl-2,2':6',2''-terpyridine)platinum (II)],
 benzimidazole-2-thiolate-bis[(2,2':6',2''-terpyridine)platinum (II)],
 benzimidazole-2-thiolate-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)],
 benzimidazole-2-thiolate-bis[(4'-ethoxy-2,2':6',2''-terpyridine)platinum (II)],
 N,S-bis[(2,2':6',2''-terpyridine)platinum(II)] thioacetimine,
 N,S-bis[(4'-chloro-2,2':6',2''-terpyridine)platinum (II)] thioacetimine,
 diethylphosphorothiolato (4'-chloro-2,2':6',2''-terpyridine)platinum(II),
 succinylthiolatoplatinum (II) 2,2':6',2''-terpyridine, or
 1-thio- β -D-glucose(2,2':6',2''-terpyridine)platinum (II).

8. (Cancelled)

9 (Currently Amended). A compound which is a complex of formula (I) or an isomer

thereof,



wherein

each X, which may be the same or different, is hydrogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, aryl, heterocyclyl, aralkyl, alkaryl, acyl, halogen, haloalkyl, haloaryl, hydroxyalkyl, hydroxyaryl, aminoalkyl, aminoaryl, primary, secondary or tertiary amine, hydrazine, alkylhydrazine, alkoxy, aralkoxy, nitrile, ester, amide, nitro, azide or aziridino, ~~or is a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species~~, or a covalently linked moiety which provides recognition for a target receptor; and

Y is [[alkyl]] cycloalkyl, [[alkenyl,]] cycloalkenyl, alkynyl, [[aralkyl,]] heterocyclyl, substituted alkenyl, substituted aralkyl, an inorganic oxyacid or inorganic oxyacid derivative, or a covalently linked chain which is joined to at least one other complex of formula (I) so as to form a dimeric or oligomeric species; or

a pharmaceutically acceptable salt thereof, ~~with the proviso that the complex of formula (I) is not 2-hydroxyethanethiolate(2,2':6',2"-terpyridine)platinum (II) or 2-aminoethanethiolate(2,2':6',2"-terpyridine)platinum (II).~~

10 (Previously Presented). A pharmaceutical composition comprising a compound as defined in claim 1 in association with a pharmaceutically acceptable carrier or excipient.

11 (New). A compound according to claim 9 wherein X is hydrogen, halogen or alkoxy or aryl.

12. (New). A compound according to claim 9 wherein X is hydrogen, chlorine, methoxyl, ethoxyl, propoxyl, butyloxyl, pentyloxyl, hexyloxyl, heptyloxyl, octyloxyl, bromophenyl or tolyl.
13. (New). A compound according to claim 12 wherein X is chlorine.
14. (New). A compound according to claim 9 wherein X is in the 4'-position.
15. (New). A compound according to claim 9 wherein Y is substituted aralkyl, or is heterocyclyl or an inorganic oxyacid or inorganic oxyacid derivative.
- 16 (New). A compound according to claim 15 wherein Y is pyridyl.
- 17 (New). A compound according to claim 9 which is pyridine-4-thiolate (4'-chloro-2,2':6,2''- terpyridine) platinum (II) nitrate.
- 18 (New). A compound according to claim 9 which is pyridine-2-thiolate (4'-chloro-2,2':6',2''- terpyridine) platinum (II) nitrate.
- 19 (New). A method of treating a patient in need of an inhibitor of human thioredoxin reductase, which method comprises administering thereto a therapeutically effective amount of a compound as claimed in claim 1.
- 20 (New). A method of treating a patient in need of an anti-protozoal, anti-rheumatoid arthritis or anti-tumor agent, which method comprises administering thereto an effective amount of a compound as claimed in claim 1.